

# Delta BIC

## A Lighting Revolution with Bluetooth® SIG Mesh

Delta Bluetooth® Intelligent Control (BIC) is now available to support mesh networking for establishing many-to-many (M:M) device communications, and is ideal for auto-sensing networks, lighting controls and building automation. Delta BIC also provides location base tracking, geofence services, and more, through Beacon integration.

# Application Scenarios

**Personalized Lighting**  
Illumination levels and color temperatures can be customized to match the preferences of personnel by sensing their beacon presence.

**Assets/Personnel Tracking**  
Location based services derived from luminaires can position personnel or equipment efficiently.

**Push Notification Service**  
A beacon observer built into the luminaire enables push notification services.

**Occupancy Sensing**  
Light fixtures are dimmed or turned off when no beacon presence is detected in the area.

**Hospital**

**Stock Tracking**  
The solution can provide inventory locations and facilitate other logistics services.

**Ambient Sensing**  
Systems alert in real-time when abnormal temperature or humidity levels are detected.

**Data Acquisition**  
Sensor data is sent to the back-end system to generate management reports.

**Geo-fencing**  
System alerts occur when beacon presets are out of range.

**Access control**  
The beacon observer in the luminaire notifies the back-end system to react properly if an abnormal condition is found.

**Industrial**

- Delta BIC Luminaires have the latest Bluetooth® SIG Mesh technology built-in so luminaire arrangement can form a connected lighting mesh network.
- Delta BIC includes single and group lighting control, on/off, dimming, and color temperature change, along with advanced scheduling, scene setting or sensing.
- Delta BIC Installation is easy and requires no signal wiring work. Switching can be used right after commissioning by downloading the APP from the store.

### Personalized Office Space

Positioning beacons integrated in the lighting fixtures enable flexible services, such as meeting room management, notifications, and personalized workspaces.

### Scenario Lighting Controls

Switch among preset scenarios such as meeting, presentation, and break modes. The light fixtures can be re-assigned to new scenarios without re-wiring.

### Occupancy Sensing

Occupancy Sensing and group control uses the Bluetooth® SIG Mesh Standard. Light fixtures are dimmed or turned off when no beacon presence is detected in the area.

### Energy Management

Power receptacles can be scheduled and also collect power consumption data.

### Daylight Harvesting

Light fixtures are automatically dimmed based on ambient light levels to further reduce energy and increase the lifespan of light fixtures.



## Office

## Retail



### Indoor Navigation

Users can find a route to the desired area through system configured mobile devices.

### Push Personalized Notification

The back-end system can integrate with luminaires for data analytics and push notifications.

### People Counting & Tracking

Besides counting customers with the 3D people counter, the beacon solution provides more data for analytics.

# Product Series

## Down Light

### Down Light Versa Series



Series	Power	Input voltage	CCT	CRI	Lumen	Angle	Cutout hole	Dimensions
Versa	10W	220V	3000K	80	1200/1300/1300 lm	15°/24°/38°	Ø95mm (3 <sup>3</sup> / <sub>4</sub> in)	Ø104x104mm (4 <sup>1</sup> / <sub>16</sub> x4 <sup>1</sup> / <sub>16</sub> in)
	35W		4000K				Ø130mm (5 <sup>1</sup> / <sub>8</sub> in)	Ø138x117mm (5 <sup>7</sup> / <sub>16</sub> x4 <sup>5</sup> / <sub>8</sub> in)
	28W		5700K				Ø130mm (5 <sup>1</sup> / <sub>8</sub> in)	Ø138x117mm (5 <sup>7</sup> / <sub>16</sub> x4 <sup>5</sup> / <sub>8</sub> in)
			2700-6500K	90	2000 lm			

### Down Light Mambo Series



Series	Power	Input voltage	CCT	CRI	Lumen	Angle	Cutout hole	Dimensions
Mambo	14W	220V	3000K 4000K 5700K	80	1100 lm	15°/24°/38°	Ø75mm (2 <sup>15</sup> / <sub>16</sub> in)	Φ85×112mm (3 <sup>3</sup> / <sub>8</sub> x4 <sup>7</sup> / <sub>16</sub> in)
	14W				1100 lm		Ø100mm (3 <sup>15</sup> / <sub>16</sub> in)	Φ115×140mm (4 <sup>1</sup> / <sub>2</sub> x5 <sup>1</sup> / <sub>2</sub> in)
	28W				2200 lm		Ø125mm (4 <sup>15</sup> / <sub>16</sub> in)	Φ140×169mm (5 <sup>1</sup> / <sub>2</sub> x6 <sup>5</sup> / <sub>8</sub> in)
	35W				2800 lm		Ø150mm (5 <sup>15</sup> / <sub>16</sub> in)	Φ165×184mm (6 <sup>1</sup> / <sub>2</sub> x7 <sup>1</sup> / <sub>4</sub> in)

## Track Light

### Track Light Foco Series



Series	Power	Input voltage	CCT	CRI	Lumen	Angle	Dimensions
Foco	14W	220V	3000K 4000K 5700K	80	730 lm	15°/24°/38°/10x60°/30*60°	Φ63x168x180mm (2 <sup>1</sup> / <sub>2</sub> x6 <sup>5</sup> / <sub>8</sub> x7 <sup>1</sup> / <sub>16</sub> in)
	35W				3000 lm		Φ90x168x180mm (3 <sup>9</sup> / <sub>16</sub> x6 <sup>5</sup> / <sub>8</sub> x7 <sup>1</sup> / <sub>16</sub> in)

## Down Light Lite Series



Series	Power	Input voltage	CCT	CRI	Lumen	Angle	Cutout hole	Dimensions
Lite	8W	220V	3000K 4000K 5700K	80	600 lm	60°(Flood)	Ø90mm (3 <sup>9</sup> / <sub>16</sub> in)	Ø102x68.6mm (4x2 <sup>1</sup> / <sub>16</sub> in)
	18W				1500 lm		Ø150mm (5 <sup>15</sup> / <sub>16</sub> in)	Ø180x90mm (7 <sup>1</sup> / <sub>16</sub> x3 <sup>9</sup> / <sub>16</sub> in)
	30W				2750 lm		Ø200mm (7 <sup>7</sup> / <sub>8</sub> in)	Ø230x121mm (9 <sup>1</sup> / <sub>16</sub> x1 <sup>1</sup> / <sub>4</sub> in)

## Down Light Tendi Series



Series	Power	Input voltage	CCT	CRI	Lumen	Angle	Cutout hole	Dimensions
Tendi	10W	220V	3000K 4000K 5700K	80	900 lm	60°	Ø100mm (3 <sup>15</sup> / <sub>16</sub> in)	Φ115×65mm (4 <sup>1</sup> / <sub>2</sub> x2 <sup>9</sup> / <sub>16</sub> in)
	20W				1800 lm		Ø125mm (4 <sup>15</sup> / <sub>16</sub> in)	Φ140×80mm (5 <sup>1</sup> / <sub>2</sub> x3 <sup>1</sup> / <sub>8</sub> in)
	28W				2400 lm		Ø145mm (5 <sup>1</sup> / <sub>16</sub> in)	Φ160×85mm (6 <sup>5</sup> / <sub>16</sub> x3 <sup>3</sup> / <sub>8</sub> in)
	35W				3100 lm		Ø175mm (6 <sup>7</sup> / <sub>8</sub> in)	Φ198×98mm (7 <sup>13</sup> / <sub>16</sub> x3 <sup>7</sup> / <sub>8</sub> in)
	35W				3100 lm		Ø215mm (8 <sup>7</sup> / <sub>16</sub> in)	Φ230×102mm (6 <sup>1</sup> / <sub>2</sub> x4in)

## Track Light Rota Series

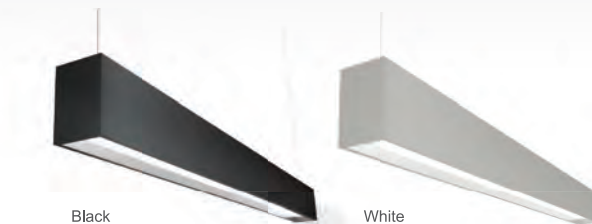


Series	Power	Input voltage	CCT	CRI	Lumen	Angle	Dimensions
Rota	14W	220V	3000K 4000K 5000K	80	1250 lm	15°/24°/38°	Φ65x154x157mm (2 <sup>9</sup> / <sub>16</sub> x6 <sup>1</sup> / <sub>16</sub> x6 <sup>3</sup> / <sub>16</sub> in)
	35W				3000 lm		Φ97x251x228mm (3 <sup>13</sup> / <sub>16</sub> x9 <sup>7</sup> / <sub>8</sub> x9in)

# Product Series

## Pendant Light

### Pendant Light LSL Series



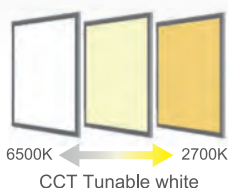
Black

White

Series	Power	Input voltage	CCT	CRI	Lumen	Efficacy	Dimensions
LSL300	30W	220V	4000K 6500K	80	2700 lm	90 lm/W	1200x120x195mm (47 <sup>1</sup> / <sub>4</sub> x4 <sup>3</sup> / <sub>4</sub> x7 <sup>11</sup> / <sub>16</sub> in)

## Panel Light

### Panel Light FPL Series



6500K ← CCT Tunable white → 2700K



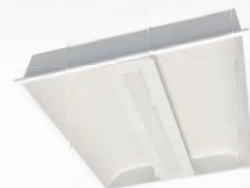
Series	Type	Power	Input voltage	CCT	CRI	Lumen	Efficacy	Dimensions
FPL101	2 x 2 1 x 4	40W	220V	5000K 6000K	80	4000 lm	100 lm/W	595x595x13mm (23 <sup>7</sup> / <sub>16</sub> x23 <sup>7</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub> in) 295x1195x13mm (11 <sup>5</sup> / <sub>8</sub> x47 <sup>1</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub> in)
FPL105	2 x 2	40W	220V	5000K 6000K	80	4400 lm	110 lm/W	601x601x13mm (23 <sup>11</sup> / <sub>16</sub> x23 <sup>11</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub> in) 301x1205x13mm (11 <sup>7</sup> / <sub>8</sub> x47 <sup>7</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub> in)
FPL360V	2 x 2	36W	220V	2700-6500K*	80	3200 lm	90 lm/W	595x595x13mm (23 <sup>7</sup> / <sub>16</sub> x23 <sup>7</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub> in)
FPL365V								601x601x13mm (23 <sup>11</sup> / <sub>16</sub> x23 <sup>11</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub> in)

## Recessed Light

### Recessed Light TBL Series



TBL105



TBL301/305

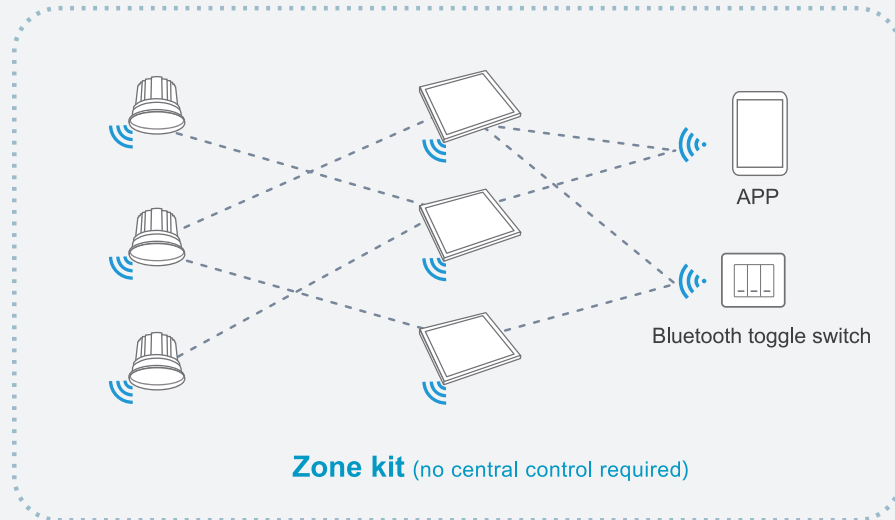
Series	Type	Power	Input voltage	CCT	CRI	Lumen	Efficacy	Dimensions
TBL105	2 x 2 1 x 4	23W	110-220V	5000K 5700K	80	3200 lm	140 lm/W	601x601x60mm (23 <sup>11</sup> / <sub>16</sub> x23 <sup>11</sup> / <sub>16</sub> x2 <sup>3</sup> / <sub>8</sub> in) 301x1205x60mm (11 <sup>7</sup> / <sub>8</sub> x47 <sup>7</sup> / <sub>16</sub> x2 <sup>3</sup> / <sub>8</sub> in)
TBL301	2 x 2	32W	220V	4000K	80	3000 lm	90 lm/W	595x595x90mm (23 <sup>7</sup> / <sub>16</sub> x23 <sup>7</sup> / <sub>16</sub> x3 <sup>9</sup> / <sub>16</sub> in)
TBL305	2 x 2	32W	220V	4000K	80	3000 lm	90 lm/W	601x601x90mm (23 <sup>11</sup> / <sub>16</sub> x23 <sup>11</sup> / <sub>16</sub> x3 <sup>9</sup> / <sub>16</sub> in)

# Delta BIC Architecture

Based on Bluetooth® SIG Mesh profile, Delta BIC provides:

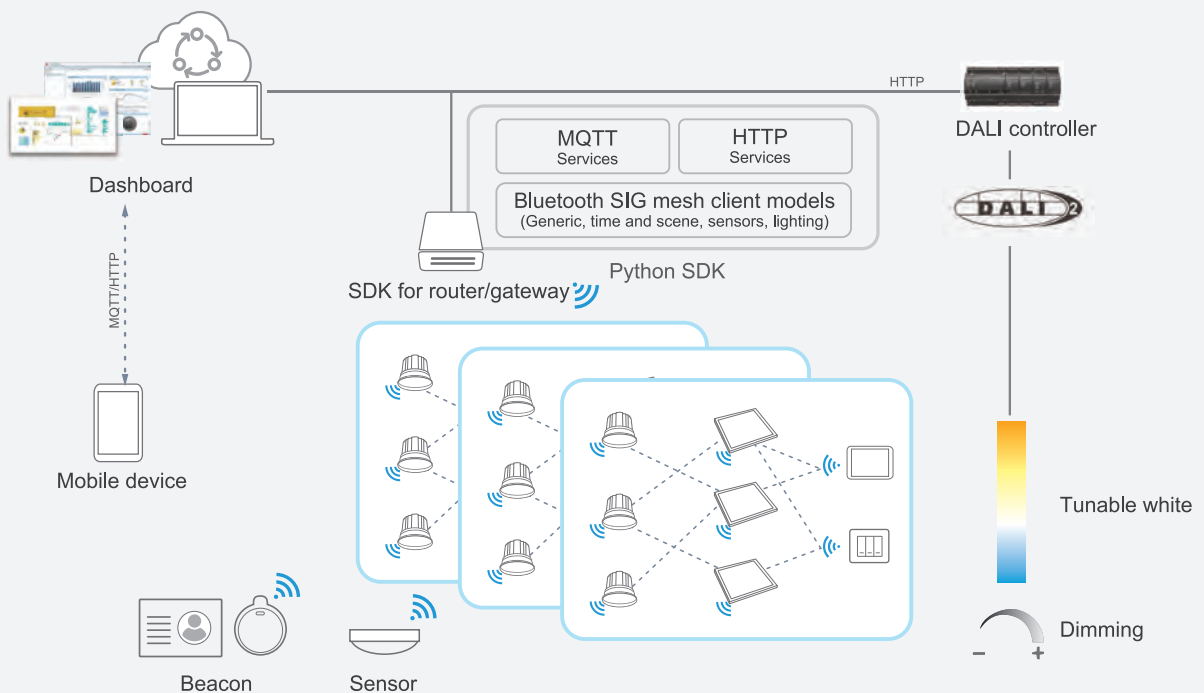
## Zone kit control

A base to connect max.128 devices



## Central control

Open platform



### Integration with building automation system



# About Delta Group

Our extensive local reach serves our worldwide customers from over 169 operation sites.

Delta's core competence is in comprehensive smart energy solutions.

We provide a True One Solution experience with end-to-end services and support.

- Delta Group established in 1971, names in the DJSI World Index for the 8th consecutive year and in the DJSI Emerging Markets Index for the 6th consecutive year.
- Delta's high-efficiency energy-saving products have helped our global customers reduce approximately 12.96 million metric tons of emissions electricity between 2010 and 2017.
- There are 27 Delta's green buildings and 2 green datacenter around the world.

- Main sales offices
- Main plant sites
- Main R&D centers

